

L5 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

Full Text	Citing References
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AN 2002:315210 CAPLUS
 DN 136:337310
 TI Biosupport of dendrimer-immobilized biopolymer and preparation
 IN Lee, Younghoon
 PA Macrogen Inc., S. Korea
 SO PCT Int. Appl., 29 pp.
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AB The present invention relates to a bio-support and prep. method of the same, and more particularly, to a method for immobilizing the bio-polymer on a glass slide when the biochip is prep. The prep. method of bio-support comprises the following steps, (a) forming a dendrimer monolayer by generating Schiff base between aldehyde groups on a silylated slide and dendrimer; and (b) converting non-reacted aldehyde groups to alc. groups on the slide (a). The bio-supports of the present invention provide three-dimensional space for effective immobilization of bio-polymers. Also, the bio-supports can promote complementary interactions between bio-polymers. Silylated slides were reacted with PAMAM dendrimer (generation 3) for 1-2 days, and nonreacted aldehyde groups were converted to alc. groups using sodium borohydride. The dried slide was treated with 1,4-phenylene diisothiocyanate and then with an oligonucleotide having an amine group at the 3'-terminus. The biosupport provided a high hybridization yield in addn. to improved oligonucleotide immobilization.

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